

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **09262481 A**

(43) Date of publication of application: **07.10.97**

(51) Int. Cl      **B01J 35/02**  
**B01J 21/06**  
**B01J 37/02**  
**B32B 9/00**  
**C01G 23/04**

(21) Application number: **08075543**

(22) Date of filing: **29.03.96**

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**(54) PHOTOCATALYST AND ITS PRODUCTION**

**(57) Abstract:**

**PROBLEM TO BE SOLVED:** To provide a production method by which a photocatalyst can be deposited and fixed on a carrier and the obtd. photocatalyst body can be used for a long time without decreasing the photocatalytic function of the photocatalyst, and especially, when titanium oxide and an amorphous titanium peroxide sol are used, to use the catalyst for various kinds of products by changing the mixing ratio of these.

**SOLUTION:** A powder or sol state of a photocatalyst such as titanium oxide and an amorphous titanium peroxide sol are applied on a base body such as an org. polymer resin, dried, solidified and/or calcined to produce a photocatalyst body having the photocatalyst carried and fixed on the base body. In this method, photocatalyst having various mixing ratio can be prepared according to the use. Or, particles of a spontaneous UV-emitting material or light-accumulating UV emitting material, or

particles in which these radiation emitting material is mixed can be used with the photocatalyst. Or an amorphous titanium peroxide sol is applied as a first layer on the base body, and then a second layer of the photocatalyst is formed to obtain the photocatalyst body.

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